

GILA RIVER BASIN

09470500 SAN PEDRO RIVER AT PALOMINAS, AZ

LOCATION--Lat 31°22'48", long 110°06'38", in SW_{1/4}, SE_{1/4}, sec. 33, T.23 S., R.22 E., Cochise County, Hydrologic Unit 15050202, near left bank on downstream side of pier of bridge on State Highway 92, 0.7 mi east of Palominas, 2.5 mi upstream from Green Brush Draw, 4.5 mi downstream from international boundary, and 12 mi southwest of Bisbee.

DRAINAGE AREA--737 mi², of which 649 mi² is in Mexico.

PERIOD OF RECORD--May 1930 to Oct. 1933, May 1935 to July 1941, July 1950 to Sept. 30, 1981 (discontinued as a continuous-record station; converted to a crest-stage partial-record station), Oct. 1995 to current year.

GAGE--Water-stage recorder. Datum of gage is 4,187.62 ft above sea level (State Highway Department benchmark). See WSP 1733 for history of changes prior to Nov. 24, 1955.

REMARKS--Records good except for estimated daily discharges, which are poor. Small diversions for irrigation of a few hundred acres above station, mostly in Mexico. Records show approximate flow of river at international boundary.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 22,000 ft³/s Aug. 14, 1940, gage height, 16.16 ft, present datum, from rating curve extended above 5,600 ft³/s on basis of slope-area measurement of peak flow; no flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD--Greatest flood since at least 1906 occurred Sept. 28, 1926, gage height, about 23.9 ft, present datum, from floodmarks; discharge not determined.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 2,400 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 31	1515	*6,410	*14.66	Aug. 23	2215	2,760	9.91
Aug. 14.....	1245	3,000	10.27	Sept. 8	2030	2,980	10.24

Minimum daily discharge, no flow June 14 to July 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.11	0.03	0.33	0.92	2.1	2.4	0.57	0.12	0.01	0.00	e297	34
2	0.09	0.03	0.30	1.1	2.0	2.4	0.61	0.11	0.01	0.00	e158	33
3	0.07	0.04	0.29	1.3	2.0	2.4	0.63	0.11	0.01	0.00	56	32
4	0.07	0.04	0.34	1.2	2.2	2.5	0.66	0.11	0.01	0.00	850	31
5	0.07	0.03	0.36	1.1	2.3	2.5	0.69	0.09	0.01	0.00	36	110
6	0.07	0.03	0.61	1.1	38	2.4	0.63	0.09	0.01	0.00	144	48
7	0.08	0.04	0.61	1.1	25	2.3	0.61	0.10	0.01	0.00	126	147
8	0.08	0.06	0.58	1.0	5.3	2.2	0.55	0.08	0.01	0.00	60	1120
9	0.06	0.06	0.56	1.1	3.3	2.2	0.53	0.08	0.01	0.00	188	421
10	0.06	0.06	0.56	1.1	2.8	2.2	0.54	0.08	0.01	0.00	580	374
11	0.07	0.06	0.60	1.2	2.9	2.1	0.56	0.06	0.01	0.00	e118	90
12	0.06	0.06	0.65	1.2	79	2.0	0.54	0.06	0.01	0.00	e214	22
13	0.06	0.06	0.60	1.2	159	1.9	0.43	0.06	0.01	0.00	457	14
14	0.06	0.08	0.57	1.2	39	1.5	0.36	0.06	0.00	0.00	1860	11
15	0.04	0.08	0.63	1.2	13	1.0	0.31	0.06	0.00	0.00	452	8.3
16	0.04	0.08	0.68	1.2	6.2	0.73	0.24	0.05	0.00	0.00	137	6.9
17	0.04	0.08	0.63	1.2	4.7	0.70	0.19	0.07	0.00	0.00	545	5.8
18	0.04	0.08	0.66	1.2	3.8	0.71	0.17	0.07	0.00	0.00	e227	4.7
19	0.04	0.08	0.70	1.2	3.4	0.75	0.16	0.08	0.00	0.00	335	4.4
20	0.04	0.08	0.71	1.2	3.1	0.75	0.16	0.07	0.00	0.00	103	4.0
21	0.03	0.08	0.82	144	2.9	0.76	0.17	0.06	0.00	0.00	64	3.5
22	0.03	0.10	0.84	35	3.0	0.77	0.17	0.05	0.00	0.00	51	3.3
23	0.03	0.11	0.84	4.8	2.7	0.77	0.16	0.05	0.00	0.00	710	2.8
24	0.02	0.12	0.77	3.6	2.5	0.77	0.18	0.15	0.00	195	469	2.4
25	0.02	e0.11	0.76	2.9	2.5	0.75	0.17	0.13	0.00	52	142	2.2
26	0.05	e0.12	0.81	2.7	2.5	0.71	0.14	0.07	0.00	29	107	1.9
27	0.04	e0.16	0.83	2.8	2.4	0.68	0.14	0.28	0.00	e508	88	1.8
28	0.03	e0.20	0.84	2.4	2.4	0.68	0.13	0.05	0.00	e0.72	58	1.4
29	0.04	e0.25	0.96	2.2	---	0.65	0.13	0.04	0.00	e0.09	47	1.2
30	0.04	e0.32	1.4	2.2	---	0.64	0.13	0.02	0.00	447	41	1.1
31	0.03	---	0.95	2.1	---	0.61	---	0.02	---	2870	36	---
TOTAL	1.61	2.73	20.79	227.72	420.0	43.43	10.66	3.03	0.13	4101.81	8756	2542.7
MEAN	0.05	0.09	0.67	7.35	15.0	1.40	0.36	0.10	0.00	132	282	84.8
MAX	0.11	0.32	1.4	144	159	2.5	0.69	0.57	0.01	2870	1860	1120
MIN	0.02	0.03	0.29	0.92	2.0	0.61	0.13	0.02	0.00	0.00	36	1.1
AC-FT	3.2	5.4	41	452	833	86	21	6.0	0.3	8140	17370	5040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

MEAN	6.12	19.0	18.6	8.55	6.90	1.91	0.61	3.70	85.0	128	26.0
MAX	770	133	414	452	73.5	75.8	14.6	4.63	55.3	280	591
(WY)	1978	2001	1979	1979	1978	1978	1979	1979	2000	1959	1958
MIN	0.00	0.00	0.10	0.04	0.07	0.22	0.00	0.00	0.00	0.26	2.68
(WY)	1966	1966	1954	1954	1972	1969	1965	1962	1997	1962	2000

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1950 - 2005

ANNUAL TOTAL	5043.39	16130.61	
ANNUAL MEAN	13.8	44.2	29.2
HIGHEST ANNUAL MEAN			93.3
LOWEST ANNUAL MEAN			4.16
HIGHEST DAILY MEAN	1620	Sep 20	Jul 31
LOWEST DAILY MEAN	0.00	Jun 7	Jun 14
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 7	Jun 14
ANNUAL RUNOFF (AC-FT)	10000	32000	21150
10 PERCENT EXCEEDS	2.1	62	28
50 PERCENT EXCEEDS	0.23	0.61	1.1
90 PERCENT EXCEEDS	0.00	0.00	0.00